

# Subpart GG-Standards of Performance for Stationary Gas Turbines

## Applicability - §60.330

General	All stationary gas turbines with a heat input at peak load equal to or greater than 10.7 gigajoules per hour (10 MMBtu/hour). Any facility which commences construction, modification, or reconstruction after October 3, 1977.
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## Emission Standards

SOURCE	NO <sub>x</sub> - §60.332	SO <sub>x</sub> - §60.333
General		1.) Facility shall not emit SO <sub>x</sub> greater than 0.015 percent by volume at 15 percent oxygen and on a dry basis. 2.) No facility shall burn any fuel which contains sulfur in excess of 0.8 percent by weight.
Electric facility gas turbines with heat input at peak load greater than 107 gigajoules (100 MMBtu/hour)	Facility shall not emit more than: $STD = 0.0075 * (14.4/Y) + F$ See §60.332 (a) (1) for variables and units	
Facilities with heat input at peak load equal to or greater than 10.7 gigajoules (10 MMBtu/hour)	Facility shall not emit more than: $STD = 0.0150 * (14.4/Y) + F$ See §60.332 (a) (2) for variables and units	
Facilities with a manufacturer's rated base load at ISO conditions of 30 megawatts or less	Facility shall not emit more than: $STD = 0.0150 * (14.4/Y) + F$ See §60.332 (a) (2) for variables and units	

## Exemptions to Emission Standards - §60.333

Source	NO <sub>x</sub>
Facilities with a heat input equal to or greater than 10 million Btu/hour but less than or equal to 100 million Btu/hour and that have commenced construction prior to October 3, 1982	Facilities are exempt from requirements of this section
Facilities using water or steam injection for control of NO <sub>x</sub> emissions when ice fog is deemed a traffic hazard by the owner or operator of the facility	Facilities are exempt from requirements of this section
Emergency gas turbines, military gas turbines for use in other than a garrison facility, military gas turbines installed for use as military training facilities, and fire fighting gas turbines	Facilities are exempt from requirements of this section

Facilities engaged by manufacturers in research and development of equipment for both gas turbine emission control techniques and gas turbine efficiency improvements	Facilities are exempt on a case-by-case basis
Facilities located in specific geographical areas where mandatory water restrictions are required by governmental agencies because of drought conditions.	Facilities are exempt only while the mandatory water restrictions are in effect.
Facilities with a heat input greater than 107.2 gigajoules per hour that commenced construction, modification, or reconstruction between the dates of October 3, 1977, and January 27, 1982, and were required in the September 10, 1979, Federal Register to comply with this section, except electric utility stationary gas turbines.	Facilities are exempt from requirements of this section
Facilities with a heat input greater than or equal to 10 million Btu/hour when fired with natural gas.	Facilities are exempt when being fired with an emergency fuel.
Regenerative cycle gas turbines with a heat input less than or equal to 100 million Btu/hour.	Facilities are exempt from requirements of this section

### Monitoring of operations - §60.334

SOURCE	NOx - Facility shall monitor and report the following:	SOx - Facility shall monitor and report the following:
All	<ol style="list-style-type: none"> <li>1.) Sulfur content and nitrogen content of the fuel being fired in the turbine</li> <li>2.) Periods of excess NOx emissions</li> <li>3.) Periods of Ice fog</li> <li>4.) Periods of Emergency fuel use</li> </ol>	<ol style="list-style-type: none"> <li>1. Any daily period during which the sulfur content of the fuel being fired in the gas turbine exceeds 0.8 percent.</li> <li>2. Periods of excess SOx emissions.</li> </ol>
Facilities using water injection	Facility shall install and operate a continuous monitoring system.	

### Test methods and procedures - §60.335

SOURCE	Method or procedure
All	<ol style="list-style-type: none"> <li>1.) To compute the nitrogen oxides emissions, the owner or operator shall use analytical methods and procedures that are accurate to within 5 percent</li> <li>2.) When conducting performance tests the facility shall use as reference methods and procedures the test methods in appendix A of this part or other methods and procedures as specified in this section.</li> <li>3.) Facility shall determine compliance with NOx and SOx standards as found in §60.335 (c) (1-3)</li> <li>4.) Facility shall determine the sulfur and nitrogen content using the procedures and methods found in §60.335 (d-e)</li> <li>5.) Facility may use alternate methods and procedures as found in §60.335 (f)</li> </ol>